CLAIMS:

1. A plasma picture screen provided with a front plate (1) which comprises a transparent plate (3) on which a dielectric layer (4) and a protective layer (5) are provided, with a carrier plate (2) provided with a phosphor layer (10), with a ribbed structure (12) subdividing the space between the front plate (1) and the carrier plate (2) into plasma cells filled with a gas, with one or several electrode arrays (6, 7, 11) on the front plate (1) and the carrier plate (2) for generating corona discharges in the plasma cells, and with a powder layer (8) between the electrode arrays (6, 7) on the front plate (1) and the electrode arrays on the carrier plate (2).

2. A plasma picture screen as claimed in claim 1, characterized in that the powder layer (8) is provided on the protective layer (5).

3. A plasma picture screen as claimed in claim 2, characterized in that the powder layer (8) is provided in strip-shaped sections on the protective layer (5).

4. A plasma picture screen as claimed in claim 3, characterized in that the strip-shaped sections of the powder layer (8) are provided such that they each lie opposite the intervening space between pairs of respective discharge electrodes (6, 7).

5. A plasma picture screen as claimed in claim 1, characterized in that the density of the powder layer (8) is $\leq 60\%$ of the density of the powder material.

6. A plasma picture screen as claimed in claim 1, characterized in that the powder layer (8) comprises a material chosen from the group of dielectric materials and phosphors.